# Substances That Could Be in Water

over the surface of the land or through the ground, resulting from the presence of animals or from human cases, radioactive material, and can pick up substances it dissolves naturally occurring minerals and, in some ponds, reservoirs, springs, and wells. As water travels The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams,

indicate that water poses a health risk. The presence of contaminants does not necessarily contain at least small amounts of some contaminants. including bottled water, may reasonably be expected to he same protection for public health. Drinking water, for contaminants in bottled water that must provide systems. Department regulations also establish limits contaminants in water provided by public water prescribe regulations that limit the amount of certain California Department of Public Health (Department) Environmental Protection Agency (U.S. EPA) and the In order to ensure that tap water is safe to drink, the U.S.

Contaminants that may be present in source water

systems, agricultural livestock operations, and wildlife; that may come from sewage treatment plants, septic Microbial Contaminants, such as viruses and bacteria

stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; that can be naturally occurring or can result from urban Inorganic Contaminants, such as salts and metals,

variety of sources such as agriculture, urban stormwater runoff, and residential uses; Pesticides and Herbicides, that may come from a

of industrial processes and petroleum production and and volatile organic chemicals, that are by-products Organic Chemical Contaminants, including synthetic runoff, agricultural applications, and septic systems; that can also come from gas stations, urban stormwater

and mining activities. occurring or can be the result of oil and gas production Radioactive Contaminants, that can be naturally

Sutter Community Services District

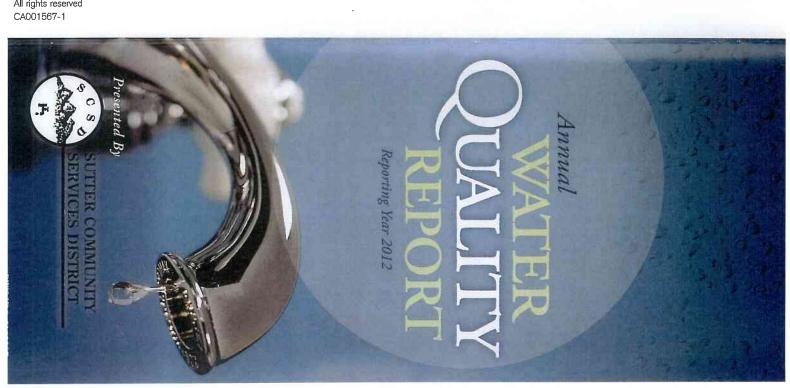
More information about contaminants and potential afe Drinking Water Hotline at (800) 425-4791. health effects can be obtained by calling the U.S. EPA's

P.O. Box 710 Sutter, CA 95982

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Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

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## Maintaining High Standards

community education while continuing to serve the source water protection, water conservation, and to you. As new challenges to drinking water safety needs of all our water users. emerge, we remain vigilant in meeting the goals of methods for delivering the best-quality drinking water federal standards. We continually strive to adopt new to producing drinking water that meets all state and performed between January 1 and December 31, 2012. Over the years, we have dedicated ourselves Water quality report covering all resting water quality report covering all testing

Guerin or Steven Thompson at (530) 755-1733. assist you. For more information about this report, or ever have any questions, we are always available to the information contained in this report. Should you questions relating to you drinking water, please call Geri Goerzinger, General Manager, or operators David We encourage you to share your thoughts with us on

you should you ever have any questions or concerns Please remember that we are always available to assist

## Important Health Information

other immune system disorders, some elderly, organ transplants, people with HIV/AIDS or chemotherapy, persons who have undergone or http://water.epa.gov/drink/hotline. on appropriate means to lessen the risk of about drinking water from their health care and infants may be particularly at risk from persons such as persons with cancer undergoing general population. Immunocompromised Safe Drinking Water Hotline at (800) 426-4791 microbial contaminants are available from the Disease Control and Prevention) guidelines providers. The U.S. EPA/CDC (Centers for infections. These people should seek advice Ocontaminants in drinking water than the ome people may be more vulnerable to by Cryptosporidium and other

### Lead in Home Plumbing

you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by are responsible for providing high-quality drinking water, but we cannot control the variety of materials used in plumbing Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We f present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children

### Community Participation

of each month beginning at 6:30 p.m. at the District water. The Board of Directors meet the 1st Monday office, 1880 Acacia Avenue. You are invited to participate in our public forum and voice your concerns about your drinking

## Source Water Assessment

following activities, although not associated with any to contamination by the identified potential sources. and a determination of the water supply's susceptibility sources of contamination within the delineated area, source water. It also includes an inventory of potential contaminants, if present, could migrate and reach our delineated area around our listed sources through which detected contaminants: These sources are considered most vulnerable to the Acompleted. This plan is an assessment of the Source Water Assessment Plan (SWAP) has been

drainage, unauthorized dumping, Well 1 & Well 2-B: Septic systems, agricultural

petroleum transfer and storage. Well 3: Gas stations, septic systems, pesticides/fertilizer/

A copy of the complete assessment may be viewed at:

		STREET, STREET
Reese Crenshaw,	Valley District 364 Knollcrest Drive Suite 100 Redding, CA 96002	California Department of Public Health
d' <sub>eg</sub>	Oľ	e e
Geri Goetzinger,	1880 Acacia Avenue Sutter, CA 95982	Sutter CSD

(530) 224-4861

(530) 755-1733

#### Tap vs. Bottled

according to government estimates). water is actually just bottled tap water (40 percent bottled water is not necessarily cleaner or safer than most tap water. In fact, about 25 percent of bottled conducted by the Natural Resources Defense Council, to tap water. However, according to a four-year study that water purchased in bottles is a healthier alternative hanks in part to aggressive marketing, the bottlec water industry has successfully convinced us al

children. Furthermore, the FDA completely exempts bottled water sold in the United States. same state, which accounts for about 70 percent of al bottled water that's packaged and sold within the waters makes them unsuitable for babies and young For instance, the high mineral content of some bottlec required by the U.S. EPA for community tap water less rigorous testing and purity standards than those for regulating bottled water, but these rules allow for The Food and Drug Administration is responsible

water than they typically do for tap water. If you get your recommended eight glasses a day from bottled same amount of tap water would cost about 49 cents. pay for bottled water. annual expenditure would be far less than what you'c Even if you installed a filter device on your tap, your water, you could spend up to \$1,400 annually. The People spend 10,000 times more per gallon for bottled

drinking/bw/exesum.asp. check out their Web site at www.nrdc.org/water For a detailed discussion on the NRDC study results

#### Sampling Results

are more than one year old. uring the past year, we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. The tables below show only those contaminants that were detected in the water. Please note that not all sampling is required annually, so in those cases the results

The second secon	SUBSTANCE (UNIT OF MEASURE)		OTHER SUBSTANCES	Total Dissolved Solids (ppm)	Sulfate (ppm)	Specific Conductance (µS/cm)	Color (Units)	Chloride (ppm)	SUBSTANCE (UNIT OF MEASURE)		SECONDARY SUBSTANCES	Turbidity (NTU)	[Total Coliform Rule] (# positive samples)	Total Coliform Bacteria	Nitrate [as nitrate] (ppm)	Gross Alpha Particle Activity (pCi/L)	Fluoride (ppm)	Chlorine (ppm)	Barium (ppb)	Arsenic' (ppb)	SUBSTANCE (UNIT OF MEASURE)		REGULATED SUBSTANCES	are more man one year our.
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-	RANGE LOW-HIGH	H		3 NA	2 NA	70 NA	NA	2 <sup>2</sup> NA <sup>2</sup>	UNT RANGE CTED LOW-HIGH	Well 2-8		0.212	į	Z Z	8.5	1.442	0.32	° 13	100²	10	AMOUNT	V		
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			· · · · · · · · · · · · · · · · · · ·	Runoff/leaching from natural deposits	Runoff/leaching from natural deposits; industrial wastes	Substances that form ions when in water; seawater influence	Naturally occurring organic materials	Runoff/leaching from natural deposits; seawater influence	SOURCE		なるながないないないというとはないないというないので	Soil runoff	A CONTRACT OF THE CASE OF THE	Naturally present in the environment	Runoff and leaching from fertilizer use; leaching from septic ranks and sewage; erosion of natural deposits	Erosion of natural deposits	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	Drinking water disinfectant added for treatment	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes	TYPICAL SOURCE			st.

Hardness (ppm) Sodium (ppm)

2008

140 26.2

NA NA

180 25.7

NA NA

175<sup>2</sup>
22<sup>2</sup>

NA NA

Erosion and leaching of natural deposits

Erosion and leaching of natural deposits

of removing arsenic from drinking water. The U.S. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Where Does My Water Come From?

Our drinking water supply is provided entirely by groundwater. The District operates three groundwater wells and a 750,000 gallon storage tank.

### Water Main Flushing

Distribution mains (pipes) convey water to homes, businesses, and hydrants in your neighborhood. The water entering distribution mains is of very high quality; however, water quality can deteriorate in areas of the distribution mains over time. Water main flushing is the process of cleaning the interior of water distribution mains by sending a rapid flow of water through the mains.

Flushing maintains water quality in several ways. For example, flushing removes sediments like iron and manganese. Although iron and manganese do not pose health concerns, they can affect the taste, clarity, and color of the water. Additionally, sediments can shield microorganisms from the disinfecting power of chlorine, contributing to the growth of microorganisms within distribution mains. Flushing helps remove stale water and ensures the presence of fresh water with sufficient dissolved oxygen and disinfectant levels, and an acceptable taste and smell.

During flushing operations in your neighborhood, some short-term deterioration of water quality, though uncommon, is possible. You should avoid tap water for household uses at that time. If you do use the tap, allow your cold water to run for a few minutes at full velocity before use and avoid using hot water, to prevent sediment accumulation in your hot water tank.

Please contact us if you have any questions or if you would like more information on our water main flushing schedule.

<sup>5</sup>Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

<sup>6</sup> Sampled in 2008.

## What's a Cross-connection?

ross-connections that contaminate drinking water distribution lines are a major concern. A cross-connection is formed at any point where a drinking water line connects to equipment (boilers), systems containing chemicals (air conditioning systems, fire sprinkler systems, irrigation systems), or water sources of questionable quality. Cross-connection contamination can occur when the pressure in the equipment or system is greater than the pressure inside the drinking water line (backpressure). Contamination can also occur when the pressure in the drinking water line drops due to fairly routine occurrences (main breaks, heavy water demand), causing contaminants to be sucked out from the equipment and into the drinking water line (backsiphonage).

Outside water taps and garden hoses tend to be the most common sources of cross-connection contamination at home. The garden hose creates a hazard when submerged in a swimming pool or when attached to a chemical sprayer for weed killing. Garden hoses that are left lying on the ground may be contaminated by fertilizers, cesspools or garden chemicals. Improperly installed valves in your toilet could also be a source of cross-connection contamination.

Community water supplies are continuously jeopardized by cross-connections unless appropriate valves, known as backflow prevention devices, are installed and maintained. We have surveyed all industrial, commercial, and institutional facilities in the service area to make sure that all potential cross-connections are identified and eliminated or protected by a backflow preventer. We also inspect and test each backflow preventer to make sure that it is providing maximum protection.

For more information, review the Cross-Connection Control Manual from the U.S. EPA's Web site at http://water.epa.gov/infrastructure/drinkingwater/pws/crossconnectioncontrol/index.cfm. You can also call the Safe Drinking Water Hotline at (800) 426-4791.

#### Definitions

AL (Regulatory Action Level): The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

**μS/cm (microsiemens per centimeter):** A unit expressing the amount of electrical conductivity of a solution.

MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PFIGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs (SMCLs) are set to protect the odor, taste and appearance of drinking water.

MCLG (Maximum Contaminant Level Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. EPA.

MRDL (Maximum Residual Disinfectant Level):
The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG (Maximum Residual Disinfectant Level Goal): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NS: No standard

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (picocuries per liter): A measure of radioactivity PDWS (Primary Drinking Water Standard): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

PHG (Public Health Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California EPA.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

TI (Ireatment Technique): A required process intended to reduce the level of a contaminant in drinking water.